

## CHAPTER 74-06-02 BUCKWHEAT

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**74-06-02-01. Classes.** Classes of buckwheat include any domestic variety.

**History:** Effective September 1, 1979.

**General Authority:** NDCC 4-09.1-02

**Law Implemented:** NDCC 4-09.1-02

**74-06-02-02. Procedure.** A representative portion of seven hundred fifty grams is properly divided from the uncleaned sample and passed through the Carter dockage tester with settings as follows:

Slot 1.	Oil sunflower riddle
Slot 2.	No top sieve
Slot 3.	# 8 sieve 6/64 triangle
Slot 4.	# 6 sieve 5/64 triangle

Set Feed on # 6

Air Control on # 6

**History:** Effective September 1, 1979; amended effective May 1, 1988.

**General Authority:** NDCC 4-09.1-02

**Law Implemented:** NDCC 4-09.1-02

### **74-06-02-03. Determination of dockage.**

1. Determine dockage.

Dockage (Drop fraction or five-tenths percent).

Pan #1 Material over oil sunflower riddle. If any buckwheat is in this pan, remove and return to dockage free buckwheat.

Pan #2 Material over # 8 sieve. This is the dockage free buckwheat.

Pan #3 Material through # 8 sieve. If over fifty percent of dockage, add to dockage. If over fifty percent of cultivated buckwheat, return all of this material to dockage free buckwheat.

Pan #4 Material through # 6 bottom sieve.

Dockage consists of air dockage plus contents of pan #4. Dockage is defined as all matter other than buckwheat which can be removed readily from a test portion of the original sample by use of an approved device in accordance with the procedures prescribed in the Federal Grain Inspection Manual. Dockage ranging from five-tenths percent to nine-tenths percent shall be expressed as five-tenths percent, dockage ranging from one percent to one and four-tenths percent shall be expressed as one percent, and dockage ranging from one and five-tenths percent to one and nine-tenths percent shall be expressed as one and five-tenths percent, etc.

2. Take test weight on dockage free portion (whole and half pounds only).
3. Check sixty gram dockage free portion for foreign material. Foreign material is defined as all other matter other than buckwheat which remains in the sample after the removal of dockage and shrunken and broken kernels.
4. Check sample for foreign odor.
5. Perform a moisture test (two hundred fifty grams sample as a whole).

**History:** Effective September 1, 1979; amended effective May 1, 1988.

**General Authority:** NDCC 4-09.1-02

**Law Implemented:** NDCC 4-09.1-02

**74-06-02-04. Type.** The type shall be designated by size, large or small, determined by sizing using an 8/64 x 3/4 slotted sieve, and shall be added to and become part of the grade name, e.g., No. 1 North Dakota Large.

1. The designation is large when at least eighty percent of the buckwheat remains on top an 8/64 x 3/4 slotted sieve. The designation is small when over twenty percent of the buckwheat passes through an 8/64 x 3/4 slotted sieve.
2. The determination of type shall be by a manual or mechanical method.
  - a. For the manual method, a representative portion of two hundred fifty grams of the cleaned sample is sized using an 8/64 x 3/4 slotted hand sieve nested over a blank tray. The sample is placed on the sieve and shaken lengthwise of the slots for twenty strokes, a stroke being about twenty centimeters back and forth.

- b. For the mechanical method, a representative portion of two hundred fifty grams of the cleaned sample is sized over the Carter dockage tester as follows:

Air - off                      Top section - (8/64 x 3/4) slotted sieve  
Feed - # 6                  Center section - Blank tray  
Riddle - nil

The machine is turned off only after the sample has passed over the sieve.

NOTE: All buckwheat passing through an 8/64 x 3/4 slotted sieve shall be weighed and percentage determined.

**History:** Effective September 1, 1979.

**General Authority:** NDCC 4-09.1-02

**Law Implemented:** NDCC 4-09.1-02

**74-06-02-05. Standards for buckwheat.** For the purpose of the official grain standards of North Dakota for buckwheat:

Grade	Minimum Test Weight		Maximum Limits of Foreign Material
	Large	Small	Percent
No. 1 North Dakota	45	48	1
No. 2 North Dakota	43	46	2
No. 3 North Dakota	40	42	4

Sample Grade - Buckwheat which has any commercially objectionable foreign odor, or is musty, sour, or is heating, hot, or otherwise unfit for the higher grades; shall be graded Sample Grade Buckwheat with the inspector's notation as to the quality and condition.

1. Dockage is all matter other than buckwheat which can be removed readily from a test portion of the original sample by use of an approved device in accordance with the procedures prescribed in the Federal Grain Inspection Manual. Dockage ranging from five-tenths percent to nine-tenths percent shall be expressed as five-tenths percent, dockage ranging from one percent to one and four-tenths percent shall be expressed as one percent, and dockage ranging from one and five-tenths percent to one and nine-tenths percent shall be expressed as one and five-tenths percent, etc.
2. Percentages, except in the case of moisture, shall be percentages ascertained by weight.
3. Percentage of moisture shall be that ascertained by the air oven or ascertained by any device and method which give equivalent results in the determination of moisture. Moisture will be shown on certificate (recommended safe storage level is sixteen percent or less).

4. Test weight per bushel [35.24 liters] shall be the weight per Winchester bushel or as determined by any device and method which give equivalent results in the determination of test weight per bushel [35.24 liters] when free from dockage.
5. Foreign material includes all other matter other than buckwheat, which remains in the sample after removal of dockage, and shrunken and broken kernels.
6. All grades may contain three stones per five hundred grams; in excess of three stones per five hundred grams up to two and five-tenths percent grade buckwheat, rejected "grade" account stones; in excess of two and five-tenths percent grade buckwheat, sample salvage.

**History:** Effective September 1, 1979; amended effective May 1, 1988.

**General Authority:** NDCC 4-09.1-02

**Law Implemented:** NDCC 4-09.1-02

#### **74-06-02-06. Types of analysis on buckwheat.**

1. Grade determination for official samples.

(Form CI-1) samples taken by North Dakota state seed department authorized inspectors or samplers licensed by the federal grain inspection service.

2. Grade determination for submitted samples.

(Form CI-2) samples not officially taken under North Dakota state seed department supervision.

**History:** Effective September 1, 1979; amended effective May 1, 1988; December 18, 1989; September 1, 2002.

**General Authority:** NDCC 4-09.1-03

**Law Implemented:** NDCC 4-09.1-03

**74-06-02-07. Sample size.** The minimum sample size is seven hundred fifty grams for grading buckwheat. Samples of less than seven hundred fifty grams will receive factor analysis on those factors which can be done with the submitted sample size, no grade will be reported.

**History:** Effective May 1, 1988.

**General Authority:** NDCC 4-09.1-02

**Law Implemented:** NDCC 4-09.1-02